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dna origami discover the impact and multidisciplinary applications of this subfield of dna nanotechnology dna origami refers to the technique of assembling single stranded dna template molecules into target two and three dimensional shapes at the nanoscale this is accomplished by annealing templates with hundreds of dna strands and then binding them through the specific base pairing of complementary bases the inherent properties of these dna molecules molecular recognition self assembly programmability and structural predictability has given rise to intriguing applications from drug delivery systems to uses in circuitry in plasmonic devices the first book to examine this important subfield dna origami brings together leading experts from all fields to explain the current state and future directions of this cutting edge avenue of study the book begins by providing a detailed examination of

structural design and assembly systems and their applications as dna origami technology is growing in popularity in the disciplines of chemistry materials science physics biophysics biology and medicine interdisciplinary studies are classified and discussed in detail in particular the book focuses on dna origami used for creating new functional materials combining chemistry and materials science dna origami for single molecule analysis and measurements as applied in physics and biophysics and dna origami for biological detection diagnosis and therapeutics medical and biological applications dna origami readers will also find a complete guide for newcomers that brings together fundamental and developmental aspects of dna origami technology contributions by a leading team of experts that bring expert views from different angles of the structural developments and applications of dna origami an emerging and impactful research topic that will be of interest in numerous multidisciplinary areas a helpful list of references provided at the end of each chapter to give avenues for further study given the wide scope found in this groundbreaking work dna origami is a perfect resource for nanotechnologists biologists biophysicists chemists materials scientists medical scientists and pharmaceutical researchers

this volume on nucleic acid nanotechnology offers authoritative up to date and comprehensive coverage of nanotechnological studies and applications of nucleic acids it provides reviews of various aspects of nucleic acid nanotechnology each written by an internationally leading expert in the field and presents state of the art and recent advances in nucleic acid synthetic modifications nanoscale design manipulation and current and future applications in bioengineering medicine electronics genetic analysis chemistry molecular biology surface and material sciences it examines how nucleic acid research is merging with nanotechnology allowing the nanoscale properties of nucleic acid to be exploited in performing challenging nanotechnological tasks from nanorobotics and nanosensing to nucleic acid computing this book will above all benefit anyone who is interested in nanotechnological concepts of nucleic acid design and applications and offers a valuable resource for teaching these concepts it is essential reading for a broad audience of scientists both in academia and industry who wish to expand their expertise on the potential of nucleic acid functions and applications

this collection of research articles and reviews covers the latest work in the design delivery dynamic abilities and immune stimulation of rna nanoparticles which have driven the utilization of their immunomodulatory properties the unknown immune properties of nucleic acid nanoparticles have been a major hurdle in their adaptation until the works herein began assessing their structure activity relationships this collection chronologically follows the path of investigating the recognition of design components to implementing them into nucleic acid nanostructures rna nanotechnology is an emerging platform for therapeutics with increasing clinical relevance as this approach becomes more widely used and approved for the treatment of various diseases the latest research aims to take advantage of rna s modular nature for the design of nanostructures which can interact with their environments to communicate

programmed messages with intracellular pathways in doing so nanoparticles can be used to elicit or elude responses by the immune system as desired in conjunction with their therapeutic applications

a thorough overview of nanobiotechnology and its place in advances in applied science and engineering the nanobiotechnology handbook combines contributions from physics bioorganic and bioinorganic chemistry molecular and cellular biology materials science and medicine as well as from mechanical electrical chemical and biomedical engineering to address the full scope of current and future developments world class experts discuss the role of nanobiotechnology in bioanalysis biomolecular and biomedical nanotechnology biosensors biocatalysis and biofuel and education and workforce development it includes downloadable resources that contain all figures in the book the book begins with discussions of biomimetic nanotechnology including a comprehensive overview of dna nanostructure and dna inspired nanotechnology aptamer functionalized nanomaterials as artificial antibodies artificial enzymes molecular motors and rna structures and rna inspired nanotechnology it shows how nanotechnology can be inspired by nature as well as adverse biological events in diagnostic and therapeutic development from there the chapters cover major important and widely used nanofabrication techniques applications of nanotechnology for bioprocessing followed by coverage of the applications of atomic force microscopy afm optical tweezers and nanofluidics as well as other nanotechnology enabled biomolecular and cellular manipulation and detection focusing on major research trends the book highlights the importance of nanobiotechnology to a range of medical applications such as stem cell technology and tissue engineering drug development and delivery imaging diagnostics and therapeutics and with coverage of topics such as nanotoxicity responsible nanotechnology and educational and workforce development it provides a unique overview and perspective of nanobiotechnology impacts from a researcher s entrepreneur s economist s and educator s point of view it provides a resource for current applications and future development of nanobiotechnology

interest in rna nanotechnology has increased in recent years as recognition of its potential for applications in nanomedicine has grown edited by the world s foremost experts in nanomedicine this comprehensive state of the art reference details the latest research developments and challenges in the biophysical and single molecule approaches in rna nanotechnology in addition the text also provides in depth discussions of rna structure for nanoparticle construction rna computation and modeling single molecule imaging of rna rna nanoparticle assembly rna nanoparticles in therapeutics rna chemistry for nanoparticle synthesis and conjugation and labeling

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